PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY . (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference KAM/002PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/IL2004/000881	International filing date (day/month/year) 22 September 2004 (22.09.2004)	Priority date (day/month/year) 22 September 2003 (22.09.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant KAMADA LTD.					

	-				
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).				
2.	This REPORT consists of a total	al of 4 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Вох №. П	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inte	rnational application		
	Box No. VIII	Certain observations on th	e international application		
4.			ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority		
	№ **		Date of issuance of this report 27 March 2006 (27.03.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer Simin Baharlou					
	Telephone No. +41 22 740 14 35 Telephone No. +41 22 338 71 30				

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING A	UTHORITY			REC'D 27	JUN 200)5
To: CYNTHIA WEBB WEBB & ASSOCIATES			PC'	WIPO		PCT
PO BOX 2189 REHOVOT, ISRAEL 76121		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
			(PCT Rule 4	3 <i>bis</i> .1)		
		Date of mailing (day/month/year)	23 JUN 2			
Applicant's or agent's file reference KAM/002 PCT		FOR FURTHER	ACTION See paragraph 2 t	pelow		
International application No.	International filing date	(day/month/year)	Priority date (de	y/month/year)		
PCT/IL04/00881	22 September 2004 (22.	.09.2004)	22 September 2	003 (22.09.200)3)	
International Patent Classification (I				<u> </u>		
IPC(7): C07K 17/00, 14/00, 1/00; A	61K 35/14, 38/04: A23J 1/00 s	and US Cl.: 530/416	380, 392, 393, 395	5, 412., 427. 83	0.	
Applicant			, , , , , , , , , , , , , , , , , , , ,	,,		
KAMADA LTD.						
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1. This opinion contains indication	is relating to the following item	ns:	4			
Box No. I Basis	of the opinion					
Box No. II Priorit	y					
l ==	stablishment of opinion with re	egard to novelty, inve	ntive step and ind	astrial applicab	oility	
Box No. IV Lack of	of unity of invention	1	4.			
Box No. V Reason application	ned statement under Rule 43 <i>bi</i> ability; citations and explanation	tatement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial y; citations and explanations supporting such statement				
Box No. VI Certai	n documents cited					
Box No. VII Certai	n defects in the international ap	pplication	•			
Box No. VIII Certai	n observations on the internation	tional application				
2. FURTHER ACTION						
If a demand for international p International Preliminary Exa Authority other than this one t that written opinions of this Inte	mining Authority ("IPEA") e o be the IPEA and the chosen	except that this does IPEA has notified the	not apply wher he International B	e the applicar	nt chooses an	1
If this opinion is, as provided IPEA a written reply together, of Form PCT/ISA/220 or before For further options, see Form P	where appropriate, with amen the expiration of 22 months f	dments, before the ex	piration of 3 mon	ths from the d	submit to the late of mailing	3
, o, termit opnom, not remit						
3. For further details, see notes to	Form PCT/ISA/220.	^				
Name and mailing address of the ISA	A/ US	Approving The State of the Stat		11 11-	A1	7
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Achinamurthy p	connatna pura	1-180	NES	
P.O. Box 1450 Alexandria, Virginia 223 13-1	450	Telephone No. 5	71-272-1600		V	

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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL04/00881

Box No. I Basis of this opinion			
 With regard to the language, this opinion has been established on the basis of the international applicati was filed, unless otherwise indicated under this item. 			
This opinion has been established on the basis of a translation from the original language into the which is the language of a translation furnished for the purposes of international search (under R	o following language, ules 12.3 and 23.1(b)).		
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application a invention, this opinion has been established on the basis of:	and necessary to the claimed		
a. type of material			
a sequence listing			
table(s) related to the sequence listing			
b. format of material			
in written format			
in computer readable form			
c. time of filing/furnishing			
contained in international application as filed.			
filed together with the international application in computer readable form.			
furnished subsequently to this Authority for the purposes of search.			
3. In addition, in the case that more than one version or copy of a sequence listing and/or table a or furnished, the required statements that the information in the subsequent or additional cope application as filed or does not go beyond the application as filed, as appropriate, were furnished.	VICO TO TOOUTION OF WHAT IN 1910		
4. Additional comments:			
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL04/00881

Box No. V Reasoned statement under Rule 43 bis. 1(a)(i) with regard to hovers, inventive step of measurement applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 1-24	YES.		
110.025) (4.)	Claims <u>25-39.</u>	МО		
Inventive step (IS)	Claims 1-24	YES		
	Claims <u>25-39.</u>			
Industrial applicability (IA)	Claims 1-39	YES		
Honorim appronents (21)	Claims None			
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2. Citations and explanations:

Lebing et. al (US patent 6,462,180 B1). Lebing et. al (US PAT 6,462,180 B1) discloses a method of purifying API polypeptide, and formulations thereof greater than 90% pure and an API as much as 100% active from Cohn fraction IV-1. Steps of removing contaminating lipids and proteins using polyethylene glycol, exclusion of enveloped and non-enveloped viruses by nanofiltration, use of non-citrate buffer such as phosphate buffer, anion and cation exchange chromatography, are taught by Lebing et. al. Ralson et. al (US patent 6,093,804) also disclose a method of purifying API polypeptide, and pharmaceutical formulations thereof with at least 90% active API including steps of removing contaminating lipids and proteins using polyethylene glycol, exclusion of enveloped and non-enveloped viruses by nanofiltration, use of non-citrate buffer such as phosphate buffer, anion and cation exchange chromatography. However the present application encompasses the extra step of using anion exchange chromatography following the cation exchange chromatography and the use of acetate-based buffer throughout the purification of API was not described by the above references or other prior art disclosures. Therefore the process of API purification using the steps in claims 1-24 are novel and unobvious. However the purified API, the level of purity, the pharmaceutical formulations and the treatment methods disclosed in claims 25-39 do not constitute novelty since an API of equal or greater purity, pharmaceutical formulations and the treatment methods are disclosed by Lebing et. al (US PAT 6,462,180 B1) and Ralson et. al (US patent 6,093,804).